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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,062	09/26/2001	Kazuyuki Matsumoto	CU-2676 RJS	1441
26530	7590 02/12/2004		EXAMINER	
LAĎAS & P		WINDMULLER, JOHN		
224 SOUTH MICHIGAN AVENUE, SUITE 1200 CHICAGO, IL 60604			ART UNIT	PAPER NUMBER
,			3724	12
			DATE MAILED: 02/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		5				
	Application No.	Applicant(s)				
	09/964,062	MATSUMOTO ET AL.				
Office Action Summary	Examiner	Art Unit				
	John Windmuller	3724				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 De	<u>ecember 2003</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:					

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DETAILED ACTION

1. The amendment of 12/11/03 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

For the reasons stated below and for the reasons stated in the prior Office Action in paragraph 1, Paper No. 10, the rejection of claims 1 and 2 under 35 U.S.C. 103(a) in Paper No. 10 is upheld.

Response to Arguments

3. Applicant's arguments filed 12/11/03 have been fully considered but they are not persuasive. The amending of claim 1 to include the formula $\Delta L = L\alpha(t-t_o)$ does not render the claim allowable over the combination of prior art because it is a basic formula for the heat expansion of a material and is implicit in any claim which includes "determining an expected expansion" (line 7) of a material that is heated.

Regarding Applicant's remarks on the Mikkelson reference in the penultimate paragraph of Applicant's Remarks, Mikkelson teaches the cutting of a hot plastic lenticular sheet material allowing for material shrinkage (col. 6, lines 4-8). The

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Mikkelson reference is combined by Examiner with the British reference 1,074,662 and Nishigaito. British reference 1,074,662 implies calculation of the rate of thermal expansion of a plastic sheet (claim 3) and Nishigaito explicitly teaches compensating the length of division of a heated material using a thermal expansion coefficient (translated abstract), which would be accomplished by one of ordinary skill in the art using none other than the above equation.

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Windmuller whose telephone number is 703 305-4988. The examiner can normally be reached on M-F 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan Shoap can be reached on 703 308-1082. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alian N. Shoap

Supervisory Patent Examiner

Group 3700